

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

*Assawadek B. Brander*  
REGISTERED ELECTRICAL ENGINEER

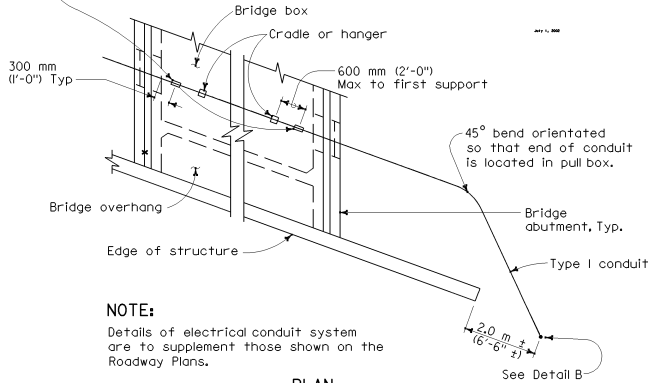
July 1, 2002  
PLANS APPROVAL DATE

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Caltrans now has a web site! To get to the web site, go to <http://www.dtd.ca.gov>

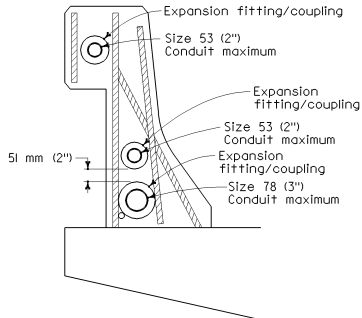
*J.S. Sandhu*  
No. E17803  
Exp. 9-30-04  
ELECTRICAL  
STATE OF CALIFORNIA

Conduit expansion fitting. See Standard Plan ES-7C Detail X. Provide for a minimum movement of 38 mm (1 1/2") [T+3 mm (1/2")] abutment where no expansion joints are located. Other expansion assemblies shall provide movements according to adjacent expansion joint size. Supports are to be located 600 mm (2'-0") maximum each side of expansion assemblies.



**NOTE:**  
Details of electrical conduit system are to supplement those shown on the Roadway Plans.

### PLAN COMMUNICATION OR SPRINKLER CONTROL CONDUITS

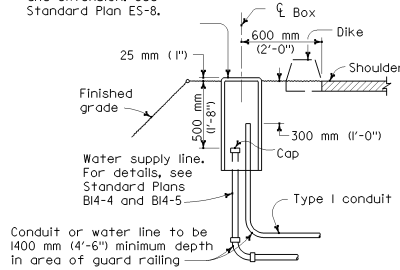


### CONDUIT IN BRIDGE RAILING

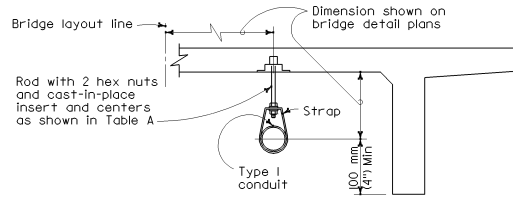
#### NOTES:

- The maximum conduit sizes shown are for a straight run across the bridge without pull boxes.
- In a bridge railing with lighting standards or pull boxes, reduce size of affected conduits as needed.

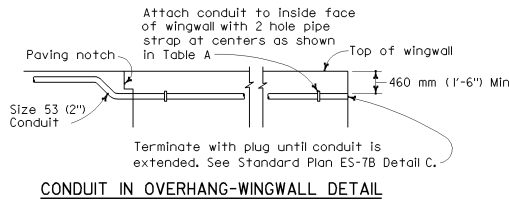
#5 Concrete pull box and extension. See Standard Plan ES-8.



### DETAIL B



### OTHER THAN BOX GIRDER CONDUIT HANGER SUPPORT DETAILS



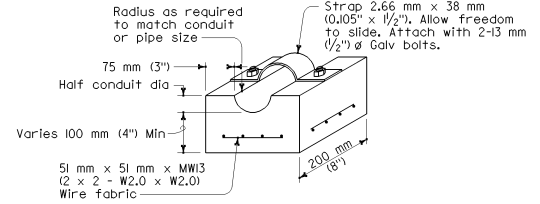
### CONDUIT IN OVERHANG-WINGWALL DETAIL

### CONDUIT LOCATIONS

For Size 53 (2'') conduit only except as noted. For location, see Bridge Detail Plans.

TABLE A

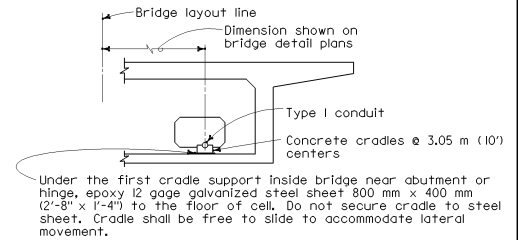
Conduit	Size 63 or less (2 1/2" or less)	Size 78 (3'')	Size 91 mm (3 1/2'')
Rod	10 mm ø (3/8" ø)	13 mm ø (1/2" ø)	16 mm ø (5/8" ø)
Strap	2.28 mm x 25.4 mm (0.090" x 1")	2.28 mm x 25.4 mm (0.090" x 1")	2.66 mm x 38 mm (0.105" x 1 1/2'')
Support spacing	3.05 m (10')	3.05 m (10')	3.05 m (10')



#### NOTES:

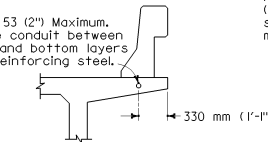
- Cradles to be precast concrete.
- Secure all cradles to bottom slab of bridge with epoxy adhesive, except as provided below.

### CONCRETE CRADLE



### BOX GIRDER

### CONDUIT SUPPORT DETAILS



### CONDUIT IN OVERHANG

## STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION COMMUNICATION AND SPRINKLER CONTROL CONDUITS [CONDUIT LESS THAN SIZE 103 (4'')]

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

**B14-3**